

## ESH&Q Building 120 Facility Risk Assessment

<b>Area/Facility Description Title:</b> SHSD FRA-01 <b>Area/Facility # (if applicable):</b> Building 120	<b>Point Value</b> → <b>Parameter</b> ↓	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Area/Facility Description:</b> Office building, one lab, and associated shed and trailer	<b>Occupancy or Use (A)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Name(s) of Risk Team Members:</b> Fred Horn, Carol Ogeka, Arthur Piper, Gerard Shepherd, Chris Weilandics, Anna Bou	<b>Severity (B)</b>	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
<b>Approved by:</b> Robert Selvey SHSD OSH POC <b>Date:</b> 04/10/06 <b>Rev. #:</b> 1	<b>Likelihood (C)</b>	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
<b>Reason for Revision (if applicable):</b> Updated table format to include “without controls” to match SHSD format for other FRAs.			<b>Comments:</b>			

Physical Item or Activity	Hazard(s)	Without Controls				Control(s)	Risk with Controls in Place				Control(s) Added to Reduce Risk	Risk with Additional Controls in Place				% Risk Reduction
		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	
Walking	Slips, trips, and falls	4	4	3	48	Lighting, building maintenance, new stair treads and handrails, Tier I inspections, general housekeeping	4	2	3	24						
Walking on ice/snow (outdoor hazards associated with winter)	Slips, trips, and falls (contusions, fractures, broken bones, back injuries)	4	4	4	64	Application of sand and salt on icy walking surfaces, drainage at water collection points, grounds maintenance, delayed opening of BNL, wearing appropriate footwear	4	3	4	48						

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Indoor air quality	Allergies, asthma, headaches, pulmonary exposure, hazards associated with animal living beneath the building	4	2	3	24	Building maintenance, changing air filters from A/Cs and heaters as needed, grounds maintenance (removal of water that could lead to mold), recirculation quality (air exchange rate)	4	2	3	24						
General Fire Hazards	Fire Hazards	4	4	4	64	Fire extinguishers, fire alarms, water sprinklers, Tier I inspections, building maintenance, general housekeeping to reduce combustibles, SBMS fire safety subject area	4	2	2	16						
Working with electrical equipment	Electrocution, electrical shock	4	4	3	48	Tier I inspections, compliance with applicable OSHA regulations, general building maintenance, proper maintenance and inspections of equipment	4	2	2	16						
	Fire	4	4	3	48	Tier I inspections, compliance with OSHA regulations, general building maintenance, proper maintenance and inspections of equipment	4	2	2	16						
Ergonomics (general office work)	Carpel tunnel syndrome, back/neck injuries, eye strain	4	2	4	32	Ergonomic reviews and evaluations, training such as back safety training, improved equipment, Tier I inspections	4	2	4	32						
Low Level Rad exposure associated with Building 356 and sealed sources from 120 laboratory	Exposure to low levels of radiation	4	1	1	4	Monitoring, training requirements for personnel entering building 356, posting as appropriate, appropriate storage and use of sealed sources	4	1	1	4						
Security	Security hazards associated with working alone and/or late at night	4	3	3	36	Adequate lighting, buddy system, working door locks, escort service	4	3	1	12						
Water Bottle Storage	Gastro-intestinal problems due to elevated bacterial levels	4	2	3	24	Proper storage of water bottles, monitoring of water quality, procedure for cleaning and handling water bottles	4	2	3	24						
Working with hot surfaces such as photocopier machine, stove and coffee-maker	Burns	4	4	3	48	Automatic timer device for coffee-maker, Tier I inspections, adherence to manufacturer's instructions of appliances	4	2	2	16						

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Storage of calibration gases (such as methane, CO2, CO, hydrogen, and nitrogen) and small quantities of corrosives in 120 lab	Splash hazards, health hazards and potential exposure pressurized gases	4	4	4	64	Appropriate PPE when handling substances such as face shield, safety glasses, and nitrile gloves, compliance with applicable SBMS procedures for storage and handling of chemicals and gases, Tier I inspections, training requirements, postings, signs, labels, and emergency placard outside door (green board)	4	2	2	16						
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Further Description of Controls Added to Reduce Risk:					
<b>*Risk:</b>	<b>0 to 20</b>	<b>21 to 40</b>	<b>41-60</b>	<b>61 to 80</b>	<b>81 or greater</b>
	<b>Negligible</b>	<b>Acceptable</b>	<b>Moderate</b>	<b>Substantial</b>	<b>Intolerable</b>